

ABSTRACT OF THE DISCLOSURE

A thermally conductive polymer composition includes polymer matrix such as thermoplastic resin or 5 thermoplastic elastomer and a graphitized carbon fiber which serves as a thermally conductive filler. The graphitized carbon fiber is made from a mesophase pitch. The mesophase pitch is spun, infusibilized, carbonized, pulverized, and graphitized to form powdery graphitized 10 carbon fibers. Preferably, the graphitized carbon fibers have a diameter of 5-20 $\mu$ m, an average particle size of 10-500 $\mu$ m, and a density of 2.20-2.26g/cm<sup>3</sup>. The composition may be molded to form a thermally conductive molded article such as a thermally conductive sheet. The 15 thermally conductive polymer composition and thermally conductive molded article have high thermal conductivity and transfer large amounts of heat from electric or electronic parts.